



Potential Tropical Cyclone Eight

September 16, 2024
10:55 AM

National Weather Service - Newport/Morehead City, NC

Decision Support Briefing #6

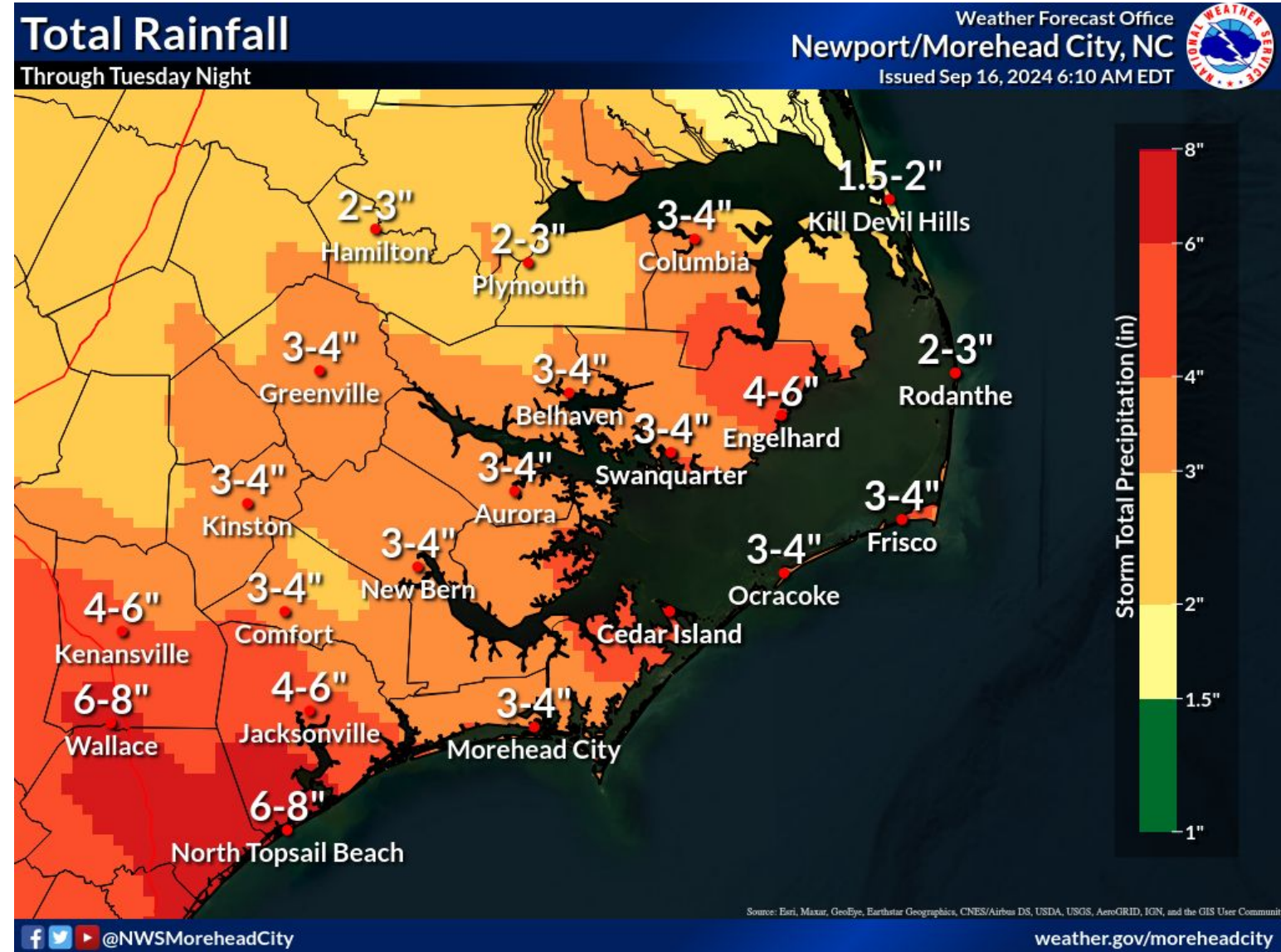
→ As of 11 AM Monday, September 16th, 2024

Key Messages

- Flooding due to heavy rain is the main threat.
- Coastal flooding, along with several tornadoes are possible.
- Winds will be the strongest near the immediate coastline.

NEW Important Updates

- Increased tornado threat for far Eastern North Carolina.
- This will be the last briefing for this event unless major changes occur.








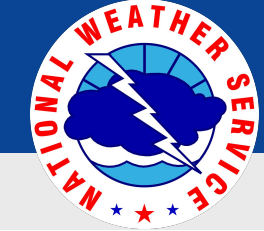
Main Points

September 16, 2024
10:55 AM

Potential Tropical Cyclone Eight

Hazard	Impacts	Location	Timing
Flooding Rain 	Flash flooding, roads closed.	Anywhere in Eastern North Carolina but the highest risk right now is over Duplin and Onslow Counties.	Through Tuesday morning.
Coastal Flooding Inundation 	Minor inundation with the greatest impacts along the Neuse, Bay and Pamlico Rivers. Low lying areas along water may be flooded.	Especially the Neuse, Bay and Pamlico rivers. Oceanside Surf City through Oregon Inlet.	Through Tuesday morning.
Tornadoes 	Several tornadoes possible with enhanced areas of damage.	All of Eastern NC.	Highest risk today and tonight.








Main Points

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Hazard	Impacts	Location	Timing
Wind 	<p>Isolated power outages. Elevated water levels on exposed areas to a northeast to east wind.</p>	<p>Immediate coastline, and especially from Ocracoke Inlet south through Surf City. Higher winds are also possible along the Neuse River, southern Pamlico Sound.</p>	<p>Through Tuesday morning.</p>
Rip Currents/High Surf 	<p>High risk for rip currents, life threatening surf conditions. Large breaking waves, beach erosion, ocean overwash..</p>	<p>All Oceanside area of Eastern North Carolina.</p>	<p>Through Tuesday morning.</p>
Marine 	<p>Dangerous conditions on the waters.</p>	<p>Most of our coastal waters, especially south of Oregon Inlet.</p>	<p>Through Tuesday morning.</p>

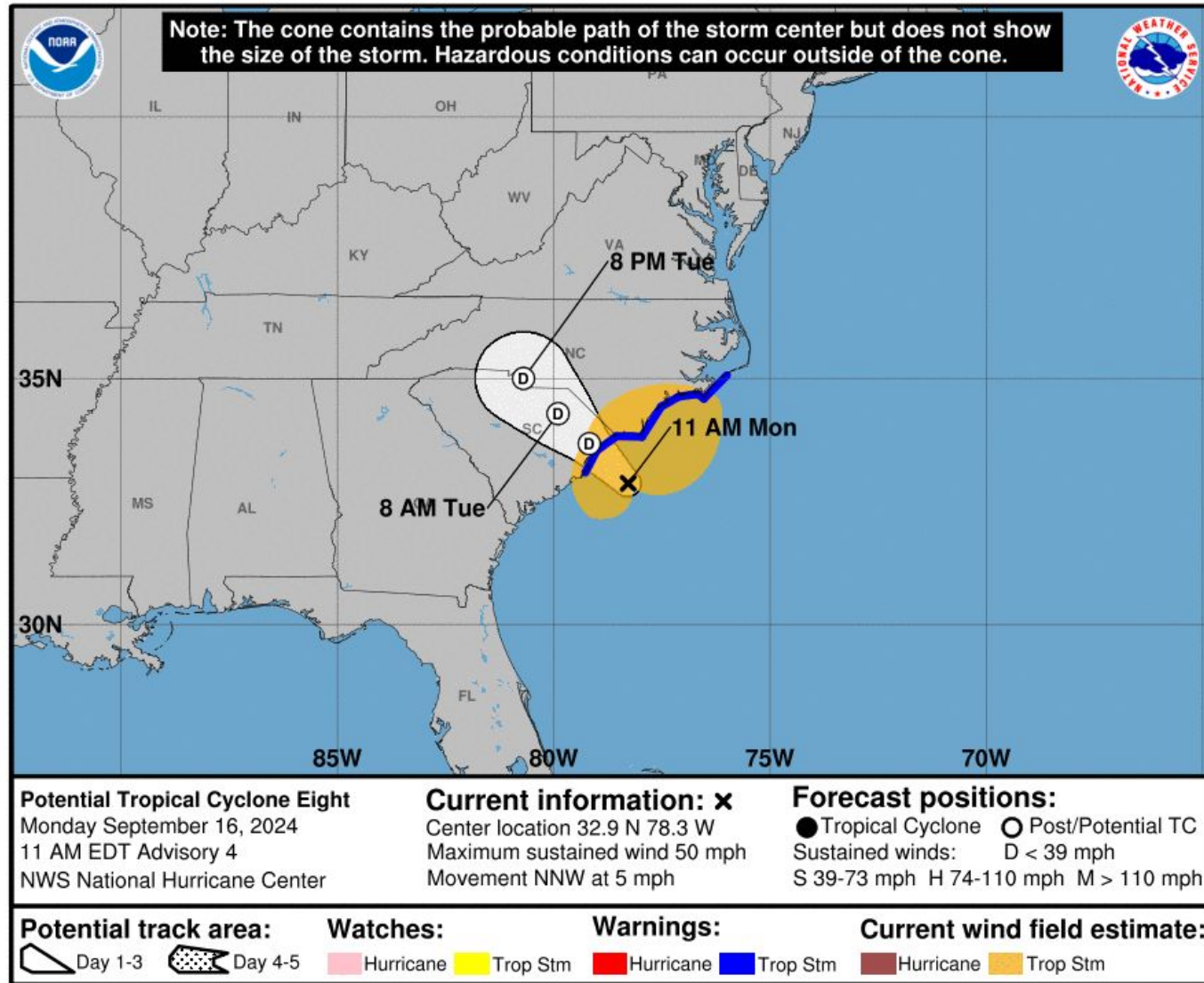




Situation Overview

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Potential Tropical Cyclone Eight



- An area of low pressure off the South Carolina coast may become either tropical or subtropical today.
- Whether or not this happens, our **IMPACTS** such as flooding rain, coastal flooding and several tornadoes have not changed.

NOTE: Do not focus on the exact track.
Impacts can occur well outside the area enclosed by the cone.





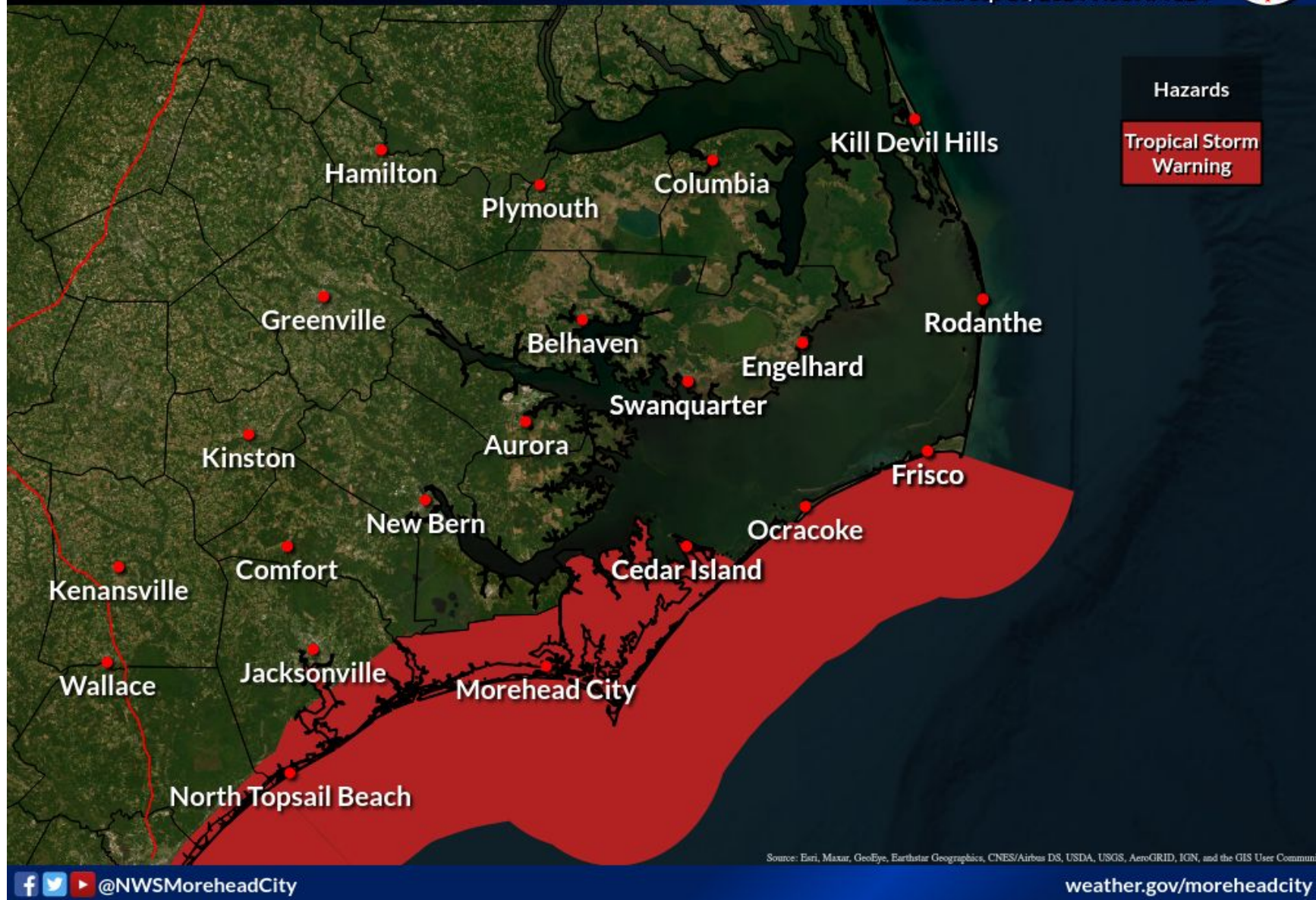
Tropical Storm Warning

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Potential Tropical Cyclone Eight

Tropical Storm Warning

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- Highest threat for tropical storm force winds will be over the coastal waters south of Cape Hatteras through Surf City.
- Over the land, the immediate coastline of Onslow and Carteret Counties (Crystal Coast) have the highest risk for tropical storm force winds.



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Expected Storm Total Rainfall

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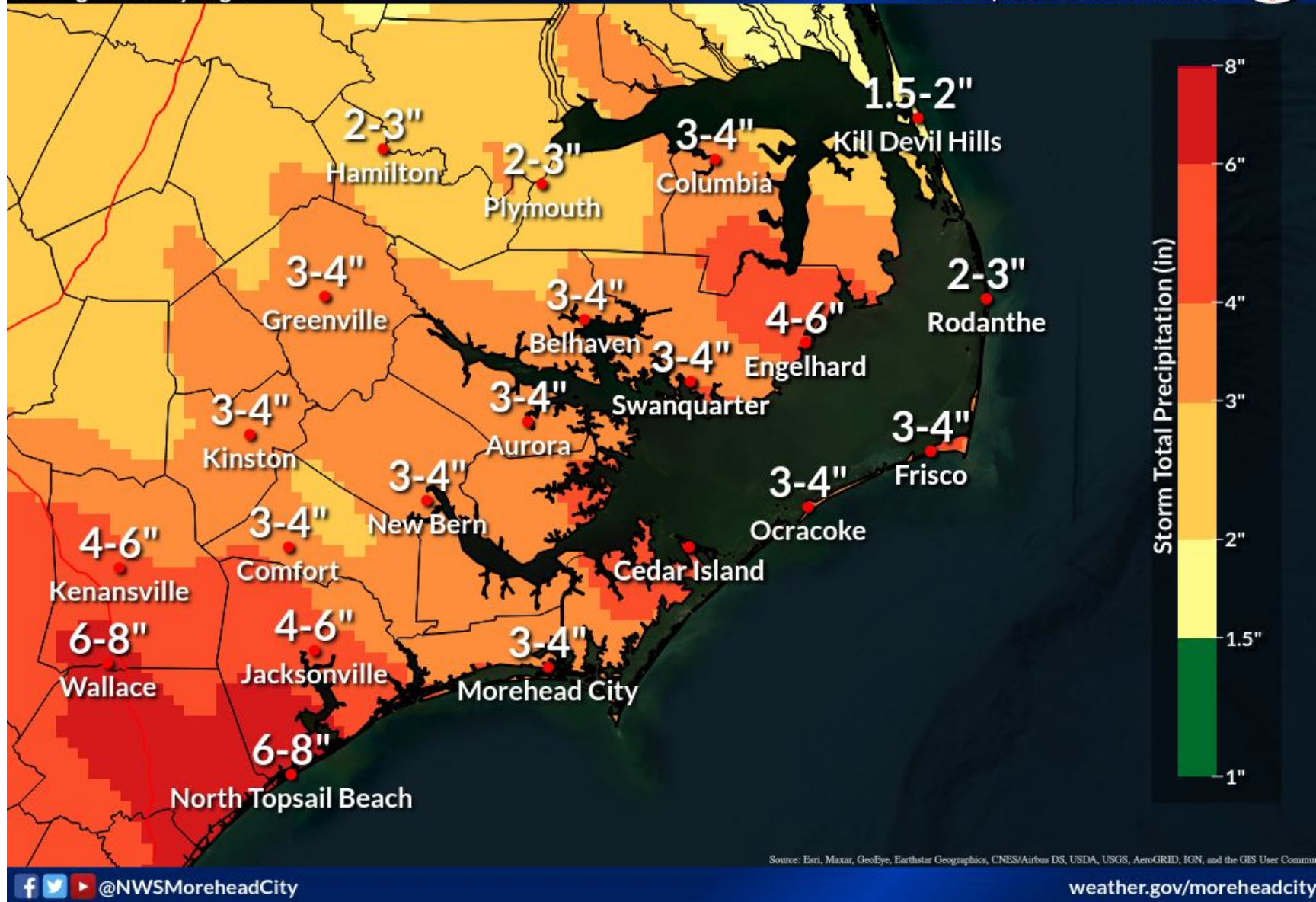
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Total Rainfall

Through Tuesday Night

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- Areas outlined in the darker oranges and reds have the greatest potential for flash flooding from now into Tuesday.
- Rain over the past week will make some areas **MORE** susceptible to flooding.



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Coastal Flooding

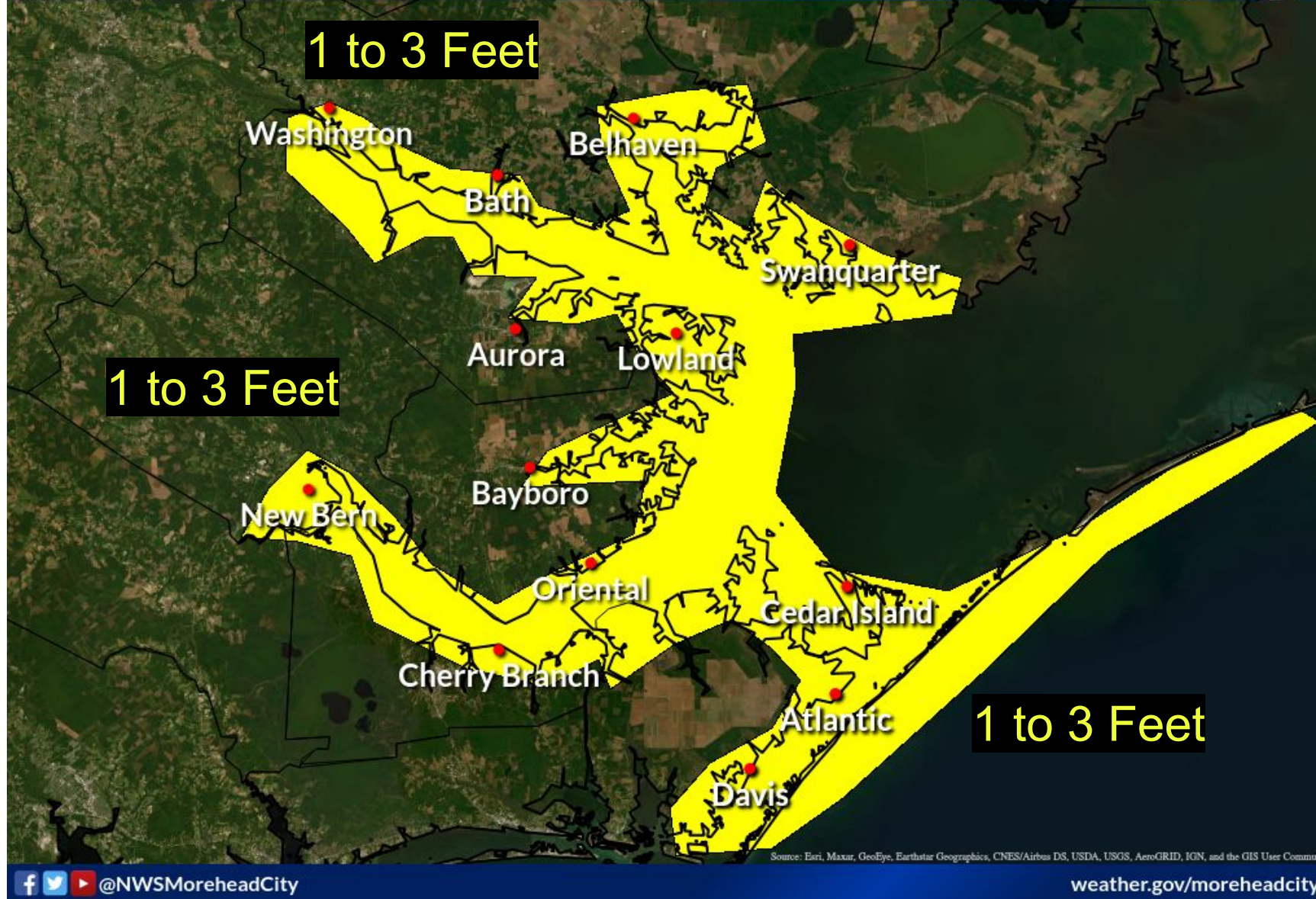
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Coastal Flooding

Through Tuesday

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- **Highest water levels and impacts up the Neuse, Bay and Pamlico Rivers.**
- **Minor flooding and inundation in low lying areas near the water. Some roads may be impassable.**



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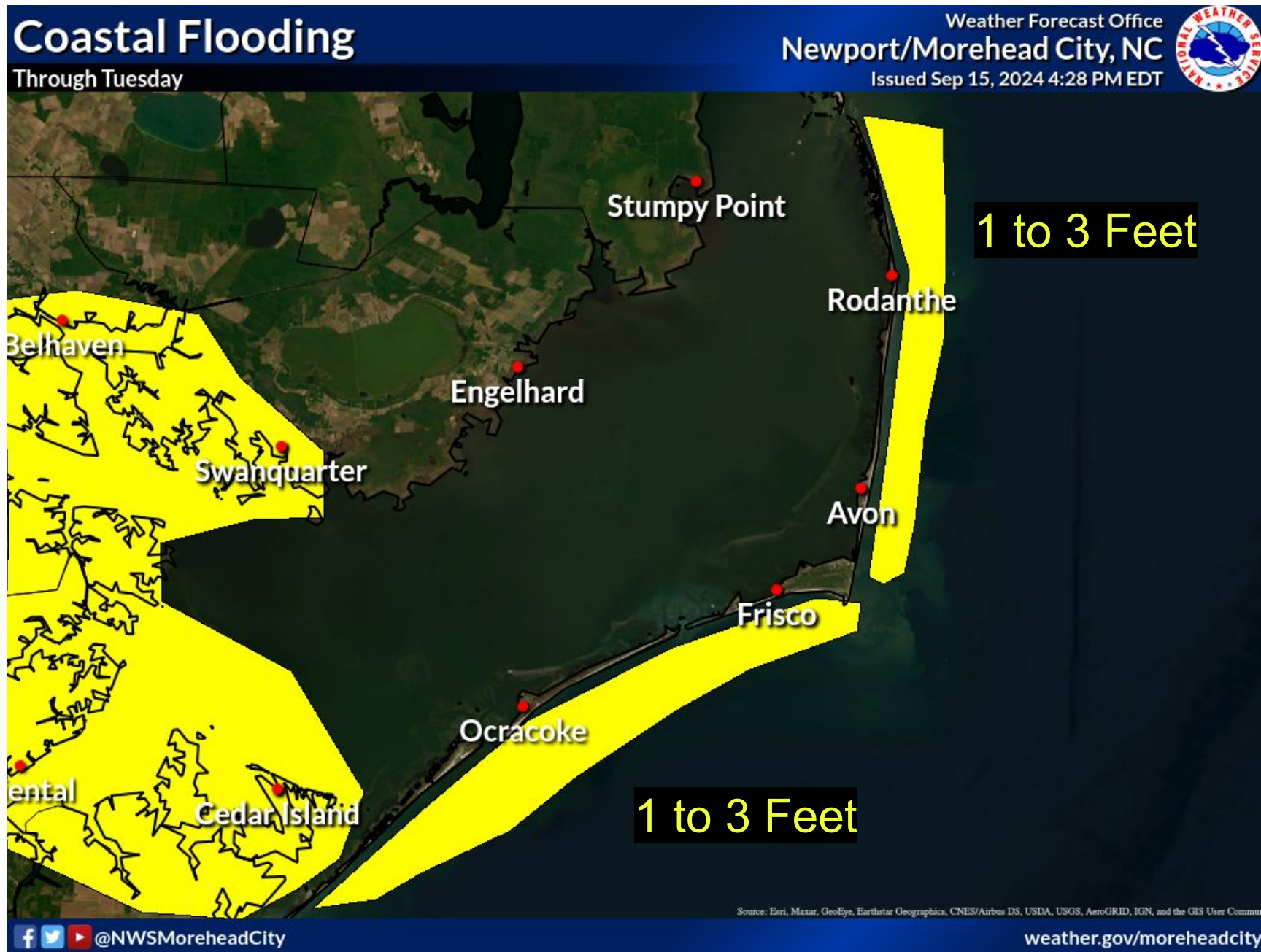
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Coastal Flooding

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- Highway 12 may be impacted by water near high tide due to ocean overwash.
- Highest impacts around typical vulnerable spots such as Pea Island, north side of Buxton, etc. and other compromise dunes.





Coastal Flooding

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Coastal Flooding

Through Tuesday

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- **Minor flooding and inundation including oceanside from Surf City through Cape Lookout.**
- **Highest impacts near vulnerable portions such as Topsail Island.**
- **Higher than normal water levels expected along the adjacent sounds including Bogue Sound, lower White Oak, Newport and New Rivers.**



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Potential Tornado Impacts

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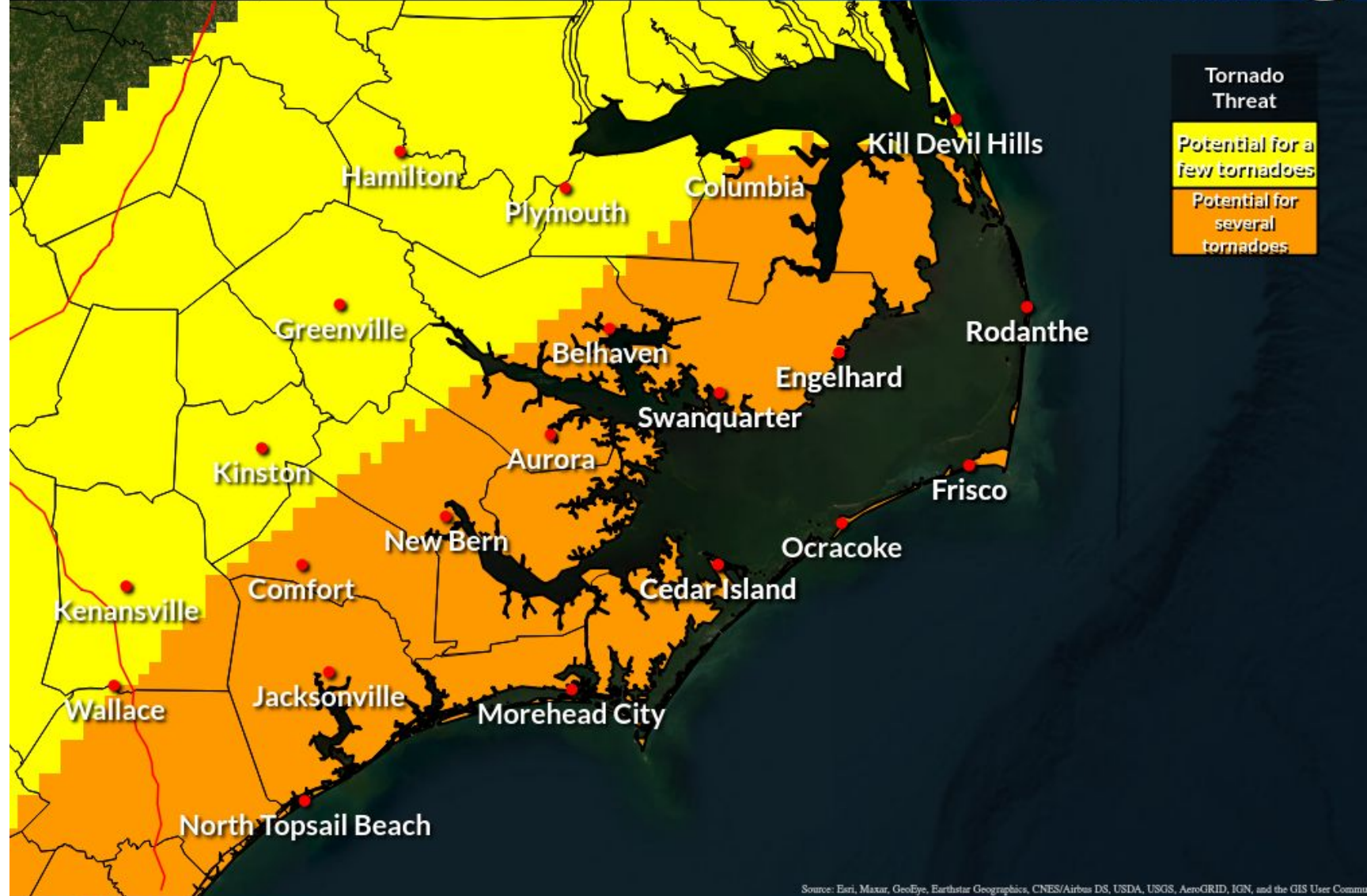
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Tornado Threat

Through Tuesday Night

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Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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- Several tornadoes are possible, especially near or in the **ORANGE** shaded area.
- Main threat will be this afternoon and tonight.
- Have multiple ways to receive warnings, with at least one that will wake you up!



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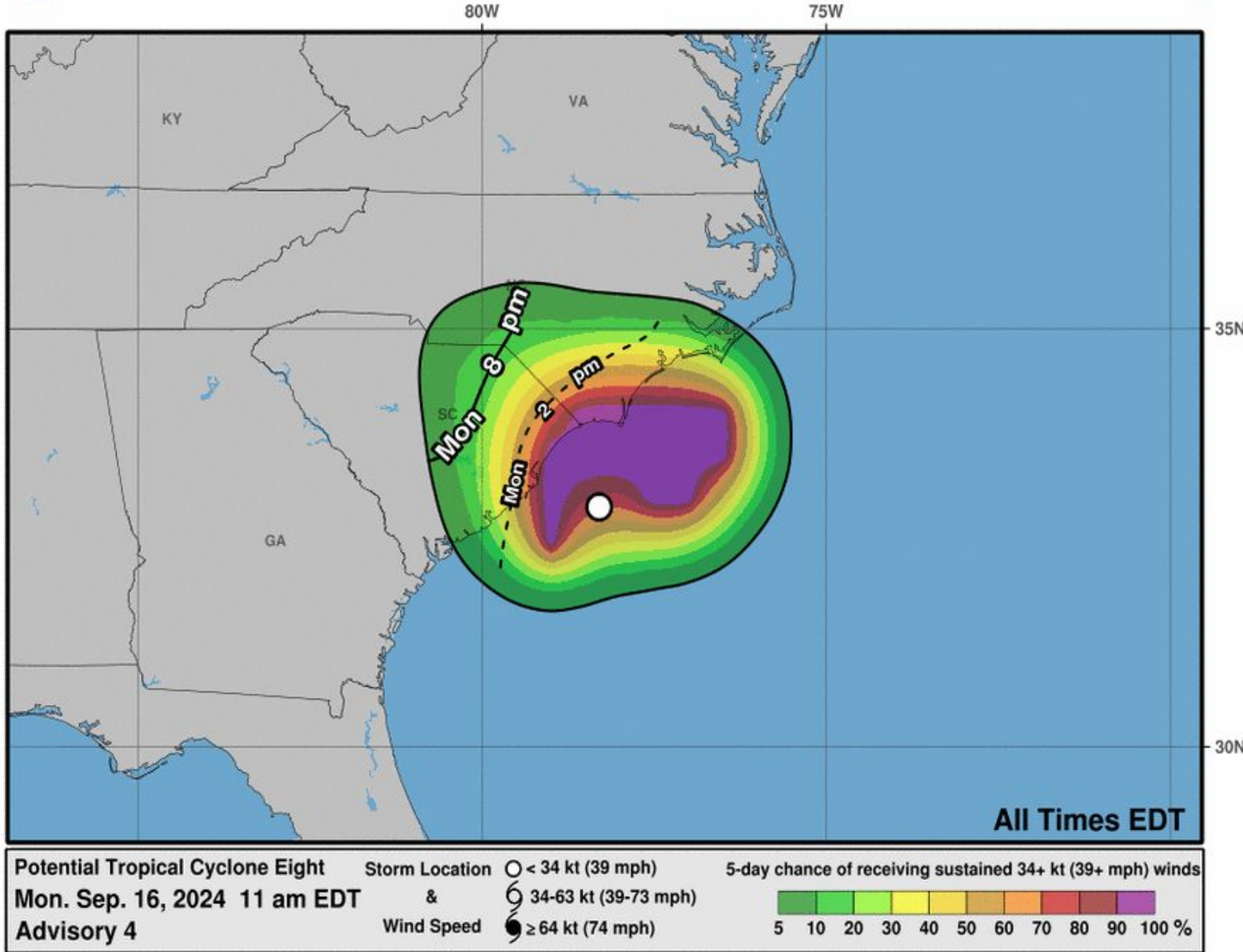
Most Likely Time of Arrival

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Most Likely Arrival Time of Tropical-Storm-Force Winds



- The most likely time of arrival of Tropical Storm Force Winds for coastal waters south of Ocracoke Inlet, and the immediate coastline is today.





Maximum Wind Gusts

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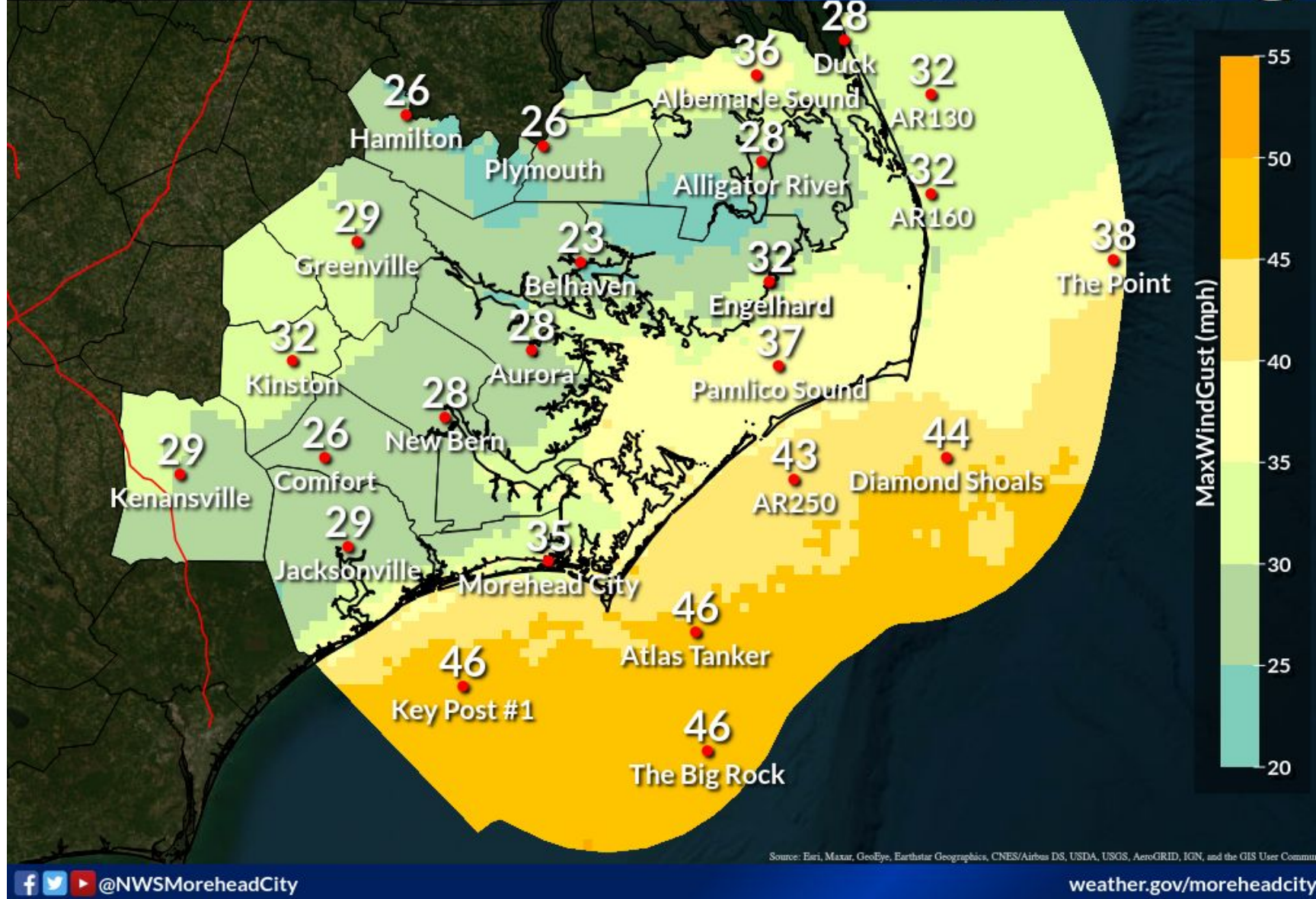
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Peak Wind Gusts

Through Tuesday Night

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- Low impact due to overall low wind speeds.
- Isolated power outages primarily along the coast.
- Highest wind speeds along the immediate coastline. Also enhanced winds over southern Pamlico Sound and the Neuse River.

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Peak Wave Heights

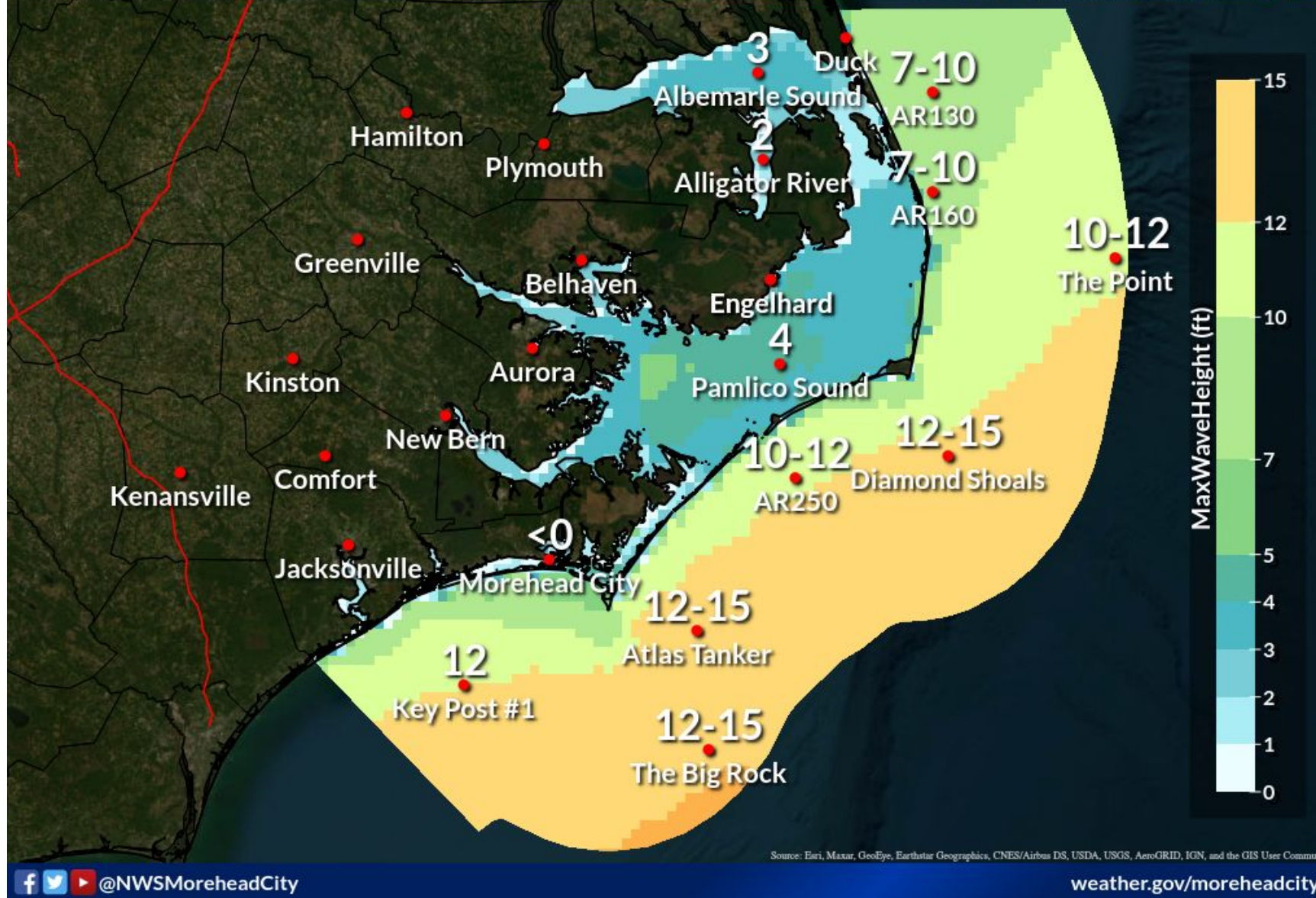
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Peak Wave Heights

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- Beach erosion and ocean overwash expected due to large breaking waves.
- Dangerous seas.



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Summary of Greatest Impacts

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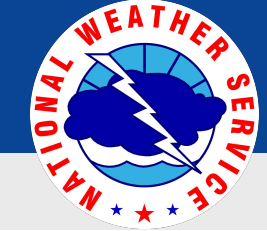
Key Messages

- Flooding due to heavy rain is the main threat today through tonight.
- Minor coastal flooding is expected with some roads becoming impassable at times, especially at high tide along oceanside areas.
- Several tornadoes are possible which may produced enhanced damage. Highest risk this afternoon and tonight.
- Winds will be the strongest near the immediate coastline where isolated power outages are possible. Highest risk today/tonight.



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Contact and Next Briefing Information

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For National Weather Service Newport / Morehead City



Briefing Webpage

→ weather.gov/media/mhx/LatestBriefing.pdf



Next Briefing

→ Last briefing



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- Information contained in this briefing is time-sensitive
- Do Not Use After: 5 PM Monday (today)



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